

CLAIMS

1. A stereoscopic image reproducing apparatus for reproducing a three-dimensional image based on control information for controlling a display of three-dimensional image data, comprising:

a decision means for deciding based on the control information whether an amount of parallax on a display screen when the three-dimensional image data is displayed is greater than an amount of parallax on a display screen when the three-dimensional image data is displayed on a standard display apparatus; and

an image processing means for implementing an image process for changing the amount of parallax,

wherein when the decision means determines that the amount of parallax will be greater, the image process by the image processing means is implemented.

2. The stereoscopic image reproducing apparatus according to Claim 1, wherein the image processing means includes a parallax quantity adjusting means for adjusting the amount of parallax by horizontally shifting an image from a predetermined viewpoint which constitutes the three-dimensional image data.

3. The stereoscopic image reproducing apparatus according

to Claim 1 or 2, wherein the image processing means includes a resizing means for changing an image size of the three-dimensional image data.

5 4. The stereoscopic image reproducing apparatus according to any one of Claims 1 to 3, wherein the control information contains information as to a resolving power of the standard display apparatus.

10 5. The stereoscopic image reproducing apparatus according to any one of Claims 1 to 3, wherein the control information contains information as to a display size when the three-dimensional image data is displayed on the standard display apparatus.

15 6. A stereoscopic image reproducing apparatus for reproducing a three-dimensional image based on control information for controlling the display of three-dimensional image data, comprising:

20 a decision means for deciding based on the control information whether an amount of parallax on a display screen when the three-dimensional image data is displayed is a value that allows for stereoscopic vision; and

 a resizing means for changing an image size of the
25 three-dimensional image data,

wherein when the decision means determines that the amount is a value that will not allow for stereoscopic vision, the enlargement and reduction ratio is limited.

5 7. The stereoscopic image reproducing apparatus according to Claim 6, wherein the control information contains parallax information representing an amount of parallax of the three-dimensional image data including an amount of parallax of a subject of importance.

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8. A stereoscopic image reproducing method for reproducing a three-dimensional image based on control information for controlling a display of three-dimensional image data, comprising:

15 a decision step for deciding based on the control information whether an amount of parallax on a display screen when the three-dimensional image data is displayed is greater than an amount of parallax on a display screen when the three-dimensional image data is displayed on a standard display apparatus; and

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 an image processing step for implementing an image process for changing an amount of parallax,

 wherein when the decision step determines that the amount of parallax will be greater, the image process by the image processing step is implemented.

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9. The stereoscopic image reproducing method according to Claim 8, wherein the image processing step includes adjustment of the amount of parallax by horizontally shifting an image from a predetermined viewpoint which constitutes the three-dimensional image data.

10. The stereoscopic image reproducing method according to Claim 8 or 9, wherein the image processing step includes resizing of an image size of the three-dimensional image data.

11. The stereoscopic image reproducing method according to any one of Claims 8 to 10, wherein the control information contains information as to a resolving power of the standard display apparatus.

12. The stereoscopic image reproducing method according to any one of Claims 8 to 10, wherein the control information contains information as to a display size when the three-dimensional image data is displayed on the standard display apparatus.

13. A stereoscopic image reproducing method for reproducing a three-dimensional image based on control information for controlling a display of three-dimensional image data,

comprising:

a decision step for deciding based on the control information whether an amount of parallax on a display screen when the three-dimensional image data is displayed is a value that allows for stereoscopic vision; and

a resizing step for changing an image size of the three-dimensional image data,

wherein when the decision means determines that the amount is a value that will not allow for stereoscopic vision, the enlargement and reduction ratio is limited.

14. The stereoscopic image reproducing method according to Claim 13, wherein the control information contains parallax information representing an amount of parallax of the three-dimensional image data including an amount of parallax of a subject of importance.